

Lucon® PA6110EM

Polyamide

LG Chem Ltd.

Message:

Description

Electromagnetic Interference (EMI) Shielding, EMI absorption

Application

Radar housing, Blind Spot Detection (BSD) shielding for automotive

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
	Carbon nano filler		
Features	Electromagnetic shielding (EMI)		
Uses	Application in Automobile Field		
	Shell		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25 - 1.35	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.30 - 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	12.3	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	< 3.0	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	471	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	18.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	440	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	203	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7 - 1.0E+11	ohms	IEC 60093
EMI Shielding Effectiveness (3.00 mm)	3.00 - 6.00	dB	ASTM D4935
Injection	Nominal Value	Unit	
Drying Temperature	80 - 100	°C	
Drying Time	4.0 - 5.0	hr	
Rear Temperature	230 - 250	°C	
Middle Temperature	240 - 270	°C	
Front Temperature	240 - 270	°C	
Nozzle Temperature	250 - 280	°C	

Processing (Melt) Temp	250 - 280	°C
Mold Temperature	80 - 100	°C
Back Pressure	0.00 - 0.981	MPa
Screw Speed	40 - 80	rpm

NOTE		
1.	5.0 mm/min	
2.	5.0 mm/min	
3.	3.0 mm/min	
4.	3.0 mm/min	

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